



YEAR 2000

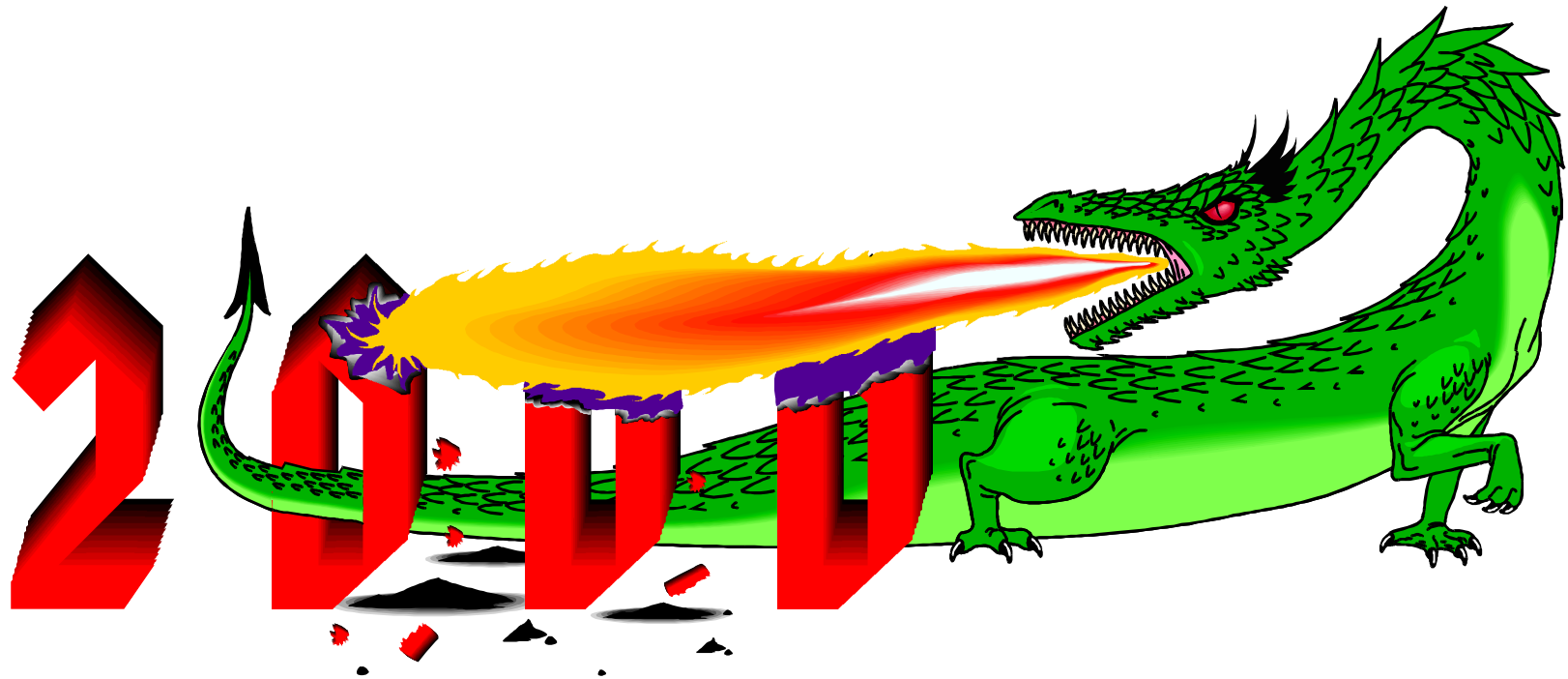
“A LOOK INTO THE FUTURE”



Presented By:
Sarah Reed
Project Manager
June 1996



Year 2000



Will it be a **DRAG-ON** our systems?

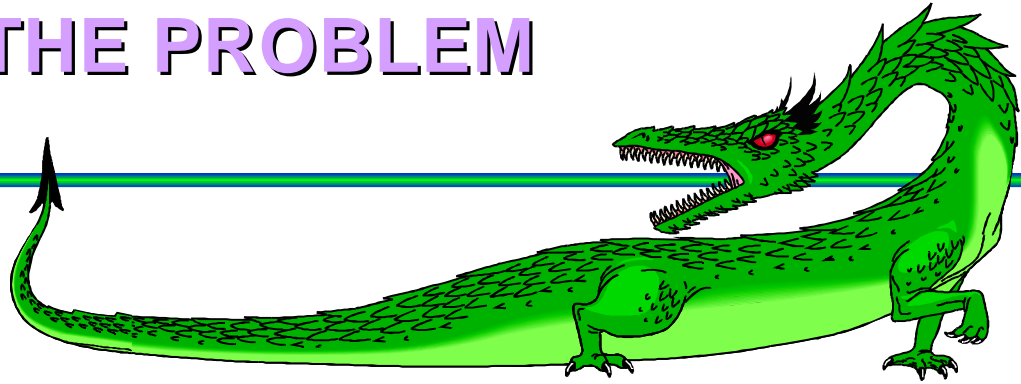


OVERVIEW

- ◆ **The Problem**
- ◆ **Impacts**
- ◆ **Scope**
- ◆ **Cost**
- ◆ **Solution Strategy**
- ◆ **Accomplishments to Date**
- ◆ **Issues and Recommendations**
- ◆ **Summary**



THE PROBLEM



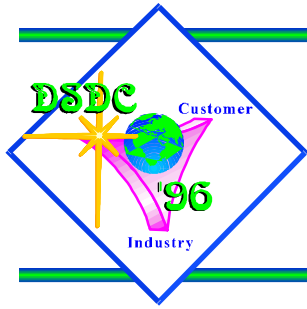
**Two digit representation for year
in storing, displaying and calculation of dates
may cause systems to:**

Abnormally Abend

Produce Erroneous Data

as we approach the end of the century.

95 96 97 98 99 00



IMPACT ON DLA MISSION

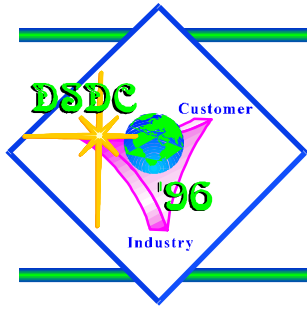
- ◆ **Material invoicing errors**
 - ◆ **Customers paid improperly or not at all**
 - ◆ **Massive late payment penalties**
- ◆ **Impediment to DLA material delivery**
 - ◆ **Untimely**
 - ◆ **Not at all!**



STATISTICAL IMPACT

COBOL Inventory:

	MOCAS	SAMMS
Programs	1103	2225
w/ dates	848 (77%)	1854 (83%)
w/ hi-impact dates	424 (38%)	925 (42%)
Unique data names identified as dates	7800	19086



WHY SO COMPLEX?

- ◆ Multiple systems each with multiple applications and numerous interfaces
- ◆ There is no single formula to size and cost the problem
- ◆ Conversion Questions... What, When and How?
- ◆ Tools alone will not solve the problem (25%)
- ◆ Dates are everywhere... SAMMS, MOCAS, DISMS, DFAMS...
- ◆ Dates may be 1 or 2 positions (e.g. MILS) or embedded (e.g. Contract #) - problem for automated tools
- ◆ Interface coordination, analysis and testing



BRIDGING THE INTERFACES

137 Applications

4-500 Commercial Products

20 Operating Systems

12 Hardware Suites

1000 Processors



REALITY CHECK

“Probably the most frightening aspect of the Year 2000 problem is that it could transcend any one company’s borders. Even if your company has solved the problem, your customer’s and supplier’s bad data could ultimately pollute your 2000 enabled systems, similar to the way a computer virus spreads.”

Time’s Running Out, Information Week Feb. 5, 1996

“Not all systems have to be changed, but all have to be analyzed and tested.”

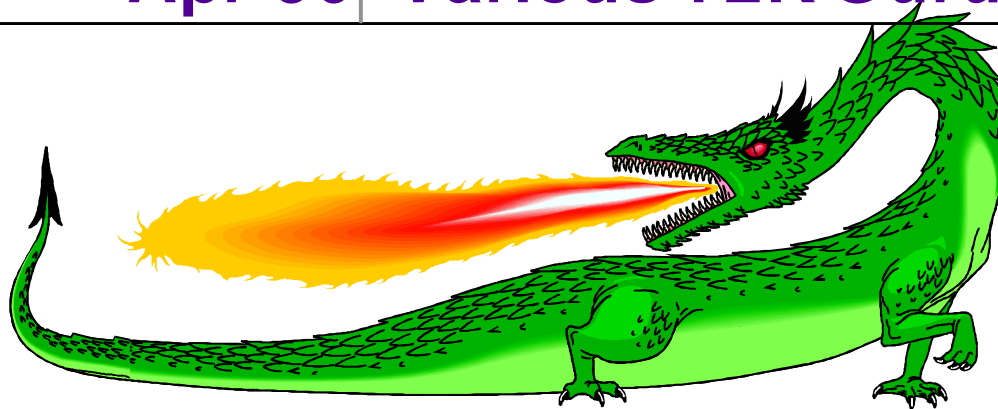
Mitre



COSTING THE PROBLEM

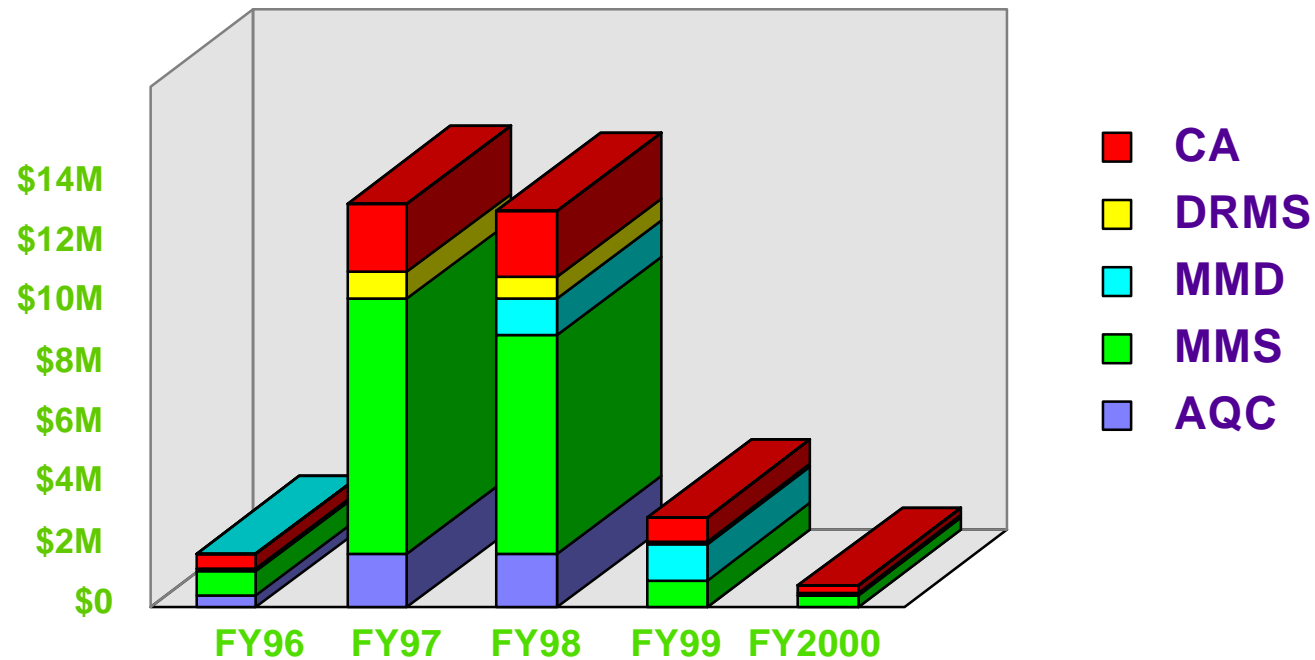
Emerging Studies

Jul-95	Gartner	.30 - .40
Nov-95	Gartner	1.10
Dec-95	DFAS DBMS	0.88
Jan-96	de Jeger	.35 - .45
Jan-96	Air Force	1.10
Apr-96	Various Y2K Gurus	1.50 - 2.00





DSDC Y2K PROGRAM PROPOSAL



CUSTOMER	FY96	FY97	FY98	FY99	FY2000	TOTAL by B.A.
AQC	\$300,000	\$1,400,000	\$1,400,000			\$3,100,000
MMS	\$699,000	\$6,900,000	\$5,900,000	\$690,000	\$345,000	\$14,534,000
MMD	\$27,000		\$1,000,000	\$1,000,000		\$2,027,000
DRMS	\$38,000	\$760,000	\$607,000	\$76,000	\$35,000	\$1,516,000
CA	\$388,000	\$1,790,000	\$1,790,000	\$673,000	\$224,000	\$4,865,000
TOTAL by FY	\$1,452,000	\$10,850,000	\$10,697,000	\$2,439,000	\$604,000	\$26,042,000
DFAS		\$424,000	\$424,000	\$212,000		\$1,060,000



FOR EACH APPLICATION

- ◆ **Develop a detailed plan for revision**
- ◆ **Analyze programs/data to locate date occurrences**
- ◆ **Replace appropriate code**
- ◆ **Verify source code changes**
- ◆ **Update databases/files**
- ◆ **Create customized test data sets**
- ◆ **Perform unit testing and debugging**
- ◆ **Perform system/regression testing**
- ◆ **Redeploy into production**

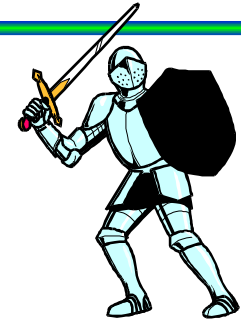


ENTERPRISE LEVEL UNDERTAKINGS

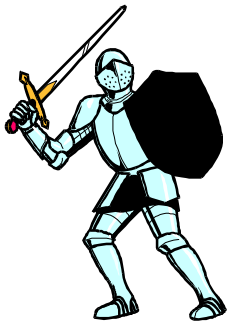
- ◆ **Y2K compliant standard date routines for mainframe**
- ◆ **Awareness building and Sponsorship briefings**
- ◆ **Signed Policy - development, SOWs, vendor products**
- ◆ **Impact assessment interviews complete**
- ◆ **Vendor compliance assessment letters out**
- ◆ **Conversion Process and Sequence recommendations**
- ◆ **Certification Process and Criteria**
- ◆ **Tool evaluations**
- ◆ **Early conversion projects (96)**



TEAM COMPOSITION



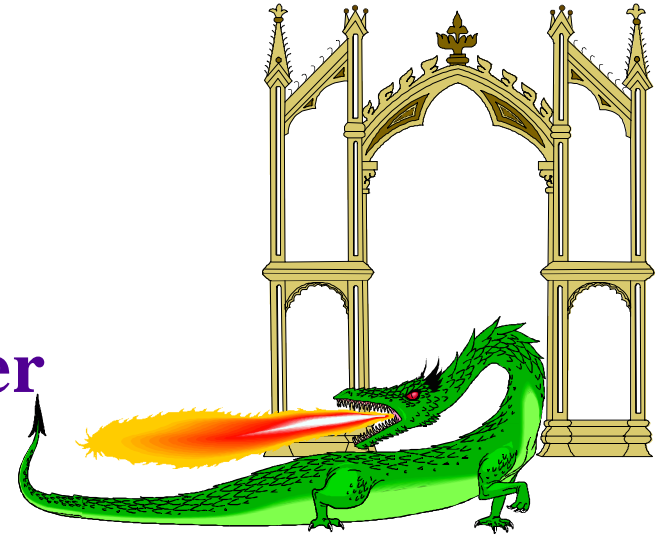
Project Manager
Technical Lead
Acquisition/Sub-Contractor Manager
OS/Vendor Tool Experts
DataBase Representative
Data Administration Representative
Requirements Analyst
Marketing/Communication Strategist
Application Experts
SQA Analyst
CM Focal Point
Testing Analyst

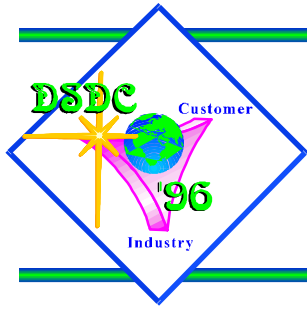




ISSUES and RECOMMENDATIONS

- ◆ **Migrating Legacy Systems**
- ◆ **Applications not directly under DSDC control**
 - ◆ **Unique or Contractor developed**
- ◆ **Funding**
- ◆ **User Environment**
- ◆ **Communication between us**



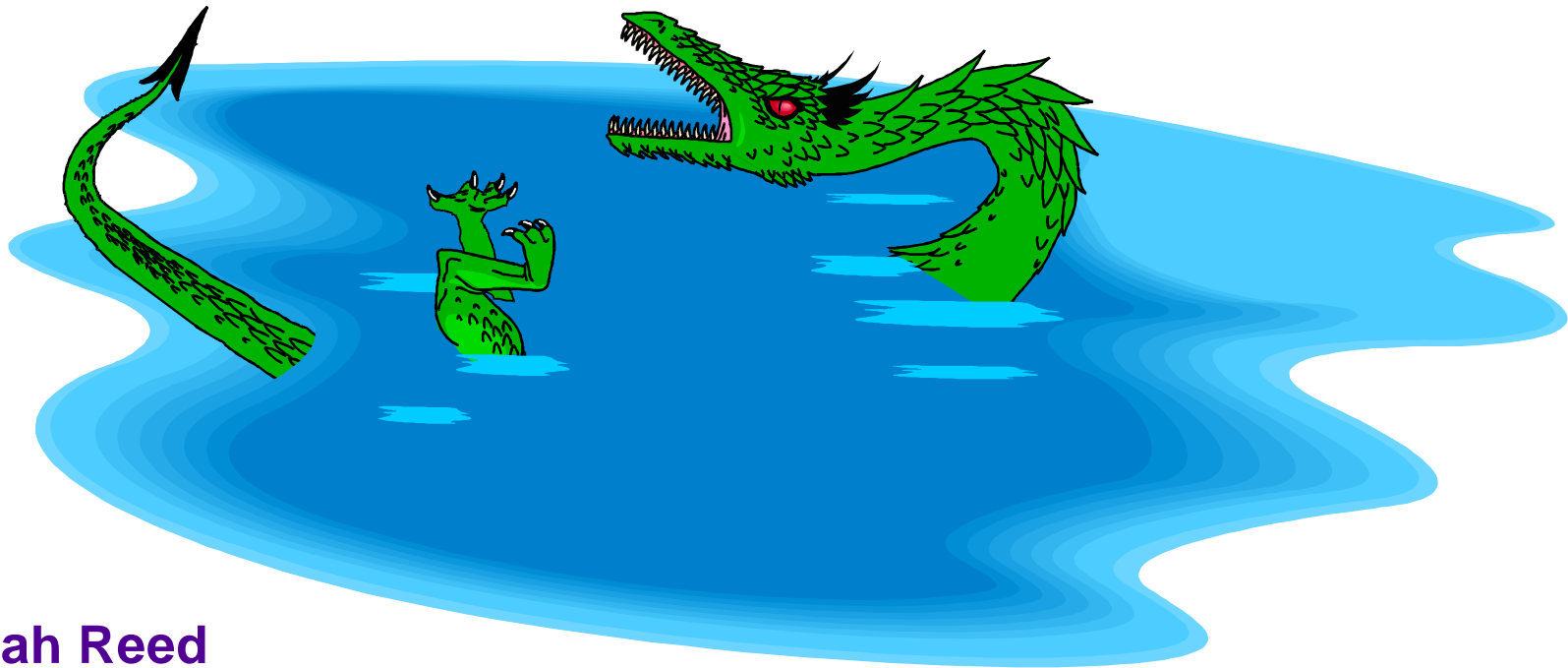


SUMMARY

- ◆ **Year 2000 Will Happen, Date Will Not Slip**
- ◆ **Problems Are Occurring Now!**
- ◆ **Benefits**
 - ◆ **More accurate inventory**
 - ◆ **Increased standard common routines**
 - ◆ **Improved CM and Testing Process**



Year 2000



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